

Data Sheet for Product Safety of Man Made Fibres *)

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Trevira[®] - CS and FR

1. Product and supplier information:

1.1. Fibre product:

- 1.1.1** Trade name: Trevira[®] - CS and FR
- 1.1.2** Appearance: Bobbin, beam; staple, tow
- 1.1.3** Fibre type: Polyester
- 1.1.4** Chemical identity: Polyethylene terephthalate
- 1.1.5** CAS-No.: 25 038-59-9
- 1.2. Use:** Production of fibre yarns, nonwovens, textile products
- 1.3. Supplier:** Trevira GmbH
D-86397 Bobingen, Max-Fischer-Straße 11
Tel.: +49 8234 82-8660 / Fax: +49 8234 82-21 46
- 1.4. Information provided by:** Trevira GmbH, R & D / Product Safety
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2. Hazards identification:

To date, proper use of this fibre product has not been associated with a special hazard or any detrimental effects on health. Fibre dust and fly may represent a fire hazard at sufficient concentrations in presence of ignition sources.

3. Composition / information on ingredients:

- 3.1. Composition:** %
- 3.1.1** Polymer: > 96
- 3.1.2** Additives: Titanium dioxide, < 2.5
dye-stuff (in case of need)
- 3.1.3** Other components: Finish < 1.5

3.2. Remarks on special components:

- 3.2.1** The fibre product can contain up to 1.5 % finish. The finish serves as a processing aid and may generally be removed in an aqueous medium, if so required.
- 3.2.2** Solvents: None

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4. First aid measures:

4.1. Inhalation:

Inhalation of fibre fly, dust and finish decomposition products should be avoided by hood suction and fresh air ventilation. In case of coughing or other symptoms the person should seek fresh air and - if necessary - see a physician.

4.2. Eye contact:

The eyes should be washed immediately with plenty of water. If irritation continues, consult a physician.

4.3. Skin contact:

Wash with soap and water. If irritation develops, consult a physician.

4.4. Ingestion:

Do not induce vomiting. Call in a physician and show him the Data Sheet.

5. Fire-fighting measures:

5.1. Burning behaviour:

Flash point:	Not applicable
	Product burns in fire.
Self-ignition temperature:	no data available
Decomposition temperature	> 300 °C

5.2. Hazardous burning / decomposition products:

Oxides of Carbon (CO, CO₂), oxides of Phosphorus and low-molecular-weight organic compounds depending on temperature and air supply.

5.3. Unusual fire and explosion hazards:

Fibre dust and fly may represent a fire hazard at sufficient concentrations. Remove ignition sources. Beware of electrostatic charges.

5.4. Extinguishing Media:

All usual extinguishing media can be used. Do not use water, if fire is caused by an electrical short circuit.

5.5. Special protective equipment for fire-fighting:

Use self-contained breathing apparatus (especially in closed rooms!).

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6. Accidental release measures:

In case of accidental spills do not allow to enter drains and waterways! When picked up, treat material as prescribed under heading "Disposal considerations". Use proper personal protection.

7. Handling and storage:

7.1. Handling:

Proper handling and processing does not require special technical protective measures. Avoid formation of dust and fibre fly!

Accumulation of fibre dust and fly may represent at sufficient concentrations a fire and explosion hazard. Remove ignition sources. Beware of electrostatic charges.

If subsequent processing involves the use of water, the waste water should be given the appropriate treatment in a purifying plant, in line with local regulations.

7.2. Storage:

Bobbins / cartons / beams / bales must be stored in line with existing provisions. With regard to the fire load existing fire protection provisions have to be observed, i.e. proper fire protection measures have to be applied.

Protect product against dust, moisture, direct sunlight and ignition sources.

8. Exposure controls / personal protection:

8.1. In general:

Avoid accumulation of and contact with fibre fly, dust and finish decomposition products by hood suction, sufficient fresh air supply and proper house keeping.

8.2. Personal safety measures:

8.2.1 Eye protection:

Wear safety glasses (e.g. especially while cutting bale or carton straps).

8.2.2 Skin protection:

Fibres that are processed at high speeds may cause abrasions or cuts. Appropriate protective measures are recommended.

8.2.3 Inhalation protection:

No special measurements required, except for fire or insufficient hood suction / fresh air supply (see 4 and 5).

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8.2.4 Work hygiene:

The general provisions on industrial work hygiene have to be observed.

8.3. Exposure limit values:

Comply with national occupational threshold values for dust. According to TRGS 900 (Germany) there are two values:

- a) 3 mg/m³ - for fine dust (A-Staub)
- b) 10 mg/m³ - for coarse dust (E-Staub)

8.4. Limitation of the environmental exposure:

Exhausted fibre fly, dust and finish decomposition products shall be kept back efficiently by adequate filter systems.

9. Physical and chemical properties:

9.1. Appearance:

9.1.1 Form: bobbin, beam; staple, tow

9.1.2 Colour: raw-white, white or dyed

9.1.3 Smell: odourless

9.2. Safety relevant data:

9.2.1 Specific gravity: 1.3 – 1.4 g/cm³

9.2.2 Melting range: 240 - 250 °C

9.2.3 Solubility in water: insoluble

9.2.4 Solvent content: none

9.2.5 Self-ignition temperature: See 5.1.

9.2.6 Decomposition temperature: See 5.1.

10. Stability and reactivity:

10.1. Chemical stability:

Stable (under normal conditions)

10.2. Conditions to avoid:

Temperatures above 300 °C lead to thermal decomposition (see also 5.2. and 10.4.).

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10.3. Materials to avoid:

Polyester will be decomposed by strong oxidation agents as well as strong acids and caustic.

10.4. Hazardous decomposition products:

See 5.2.

10.5. Polymerization:

Will not happen (under normal conditions).

11. Toxicological information:

See 2.

12. Ecological information:

12.1. Eco-toxicological information:

The fibre product can be separated out mechanically.

Finish components may vaporize or decompose at temperatures above 130 °C.

If subsequent processing involves the use of water, the waste water should be given the appropriate treatment in a purifying plant, in line with local regulations.

12.2. Eco-chemical information:

Under usual soil conditions Polyester is stable and does not decompose.

13. Disposal considerations:

If recycling is not possible, Polyester can be disposed of in a suitable refuse installation or incinerated subject to local regulations.

14. Transport information:

- Rail/Road (RID / ADR):	Not restricted
- Sea (IMO / IMDG):	Not restricted
- Air (ICAO/IATA):	Not restricted

15. Regulatory information:

The fibre product does not require a hazard warning label in accordance with EC directives.

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16. Other Information:

Consult the manufacturer if the product is to be used for special applications such as in the food industry, or in the hygienic, in the medical or surgical sector.

This data sheet is intended to provide information about the physical properties, safety aspects, toxicological data and ecological characteristics which are relevant for the use of man made fibres in textile and industrial applications, and to recommend safe procedures for handling, storage and transport. Furthermore, it should also serve to provide industrial users of man made fibres with the appropriate information to protect both man and the environment.

This data sheet was not designed with the private end-user in mind. It is recommended that supplementary information is requested if an unusual application of this fibre product is intended.

The information given here is the best available to the author of this document on the date of issue. It does not constitute a contractual description of the product properties.

- *) *Trevira[®] - CS and FR* is an article made of man made fibres and is not subject to European Regulation (EC) 1907/2006 on registration, evaluation and authorization of chemical substances (REACH). Safety Data Sheets or Chemical Safety Reports according to Art. 31 resp. Art. 14 of this regulation are therefore not required. This data sheet was established following Annex II of this regulation. The raw- and auxiliary materials used for the manufacturing of *Trevira[®] - CS and FR* are predominantly concerned by this regulation. Trevira will track the status of the registration and evaluation of these materials.